

# 5.1 Intro to Polynomials

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## Examples

1. How many terms? Name of polynomial?

- a)  $5j^2 \rightarrow 1 \text{ term, monomial}$   
b)  $3 - m^2 \rightarrow 2 \text{ terms, binomial}$   
c)  $ab^2 - ab + 1 \rightarrow 3 \text{ terms, trinomial}$   
d)  $-4x^2 + xy - y^2 + 10 \rightarrow 4 \text{ terms, polynomial}$
- } are all polynomials too

2. What is the degree of each polynomial?

a)  $1 - 3x \rightarrow \text{degree} = \text{sum of exponents on the variables in a } \underline{\text{term}}.$   
 $= 1$

b)  $4x - 3xy + 7 \rightarrow \text{degree} = 2$

c)  $-27a^3b^2 \rightarrow \text{degree} = 5$

d)  $99 \rightarrow \text{degree} = 0 \text{ for a constant term}$   
 $= 99(x^0)$   
 $= 99(1)$

7. 1. 1. 1.  $-x^2 + 4x - 3$

tiles  
colours = +

white = -

$$\boxed{-} \boxed{-} \boxed{+} \boxed{+} \boxed{+} \boxed{+} \boxed{-} \boxed{-} \boxed{-}$$

b) Write an expression for

$$\boxed{+} \boxed{+} \boxed{+} \boxed{+} \boxed{-} \boxed{-}$$

$$\rightarrow x^2 + 3x - 4$$

Practice pg 179 #5-20